

Appl. No. 10/774,549
Amdt. Dated February 10, 2006
Reply to Office Action of October 11, 2005

Attorney Docket No. 81716.0119
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

2. (Currently amended): A method for manufacturing a ceramic circuit board, comprising the steps of:

preparing a ceramic substrate having a through hole, a metal column with brazing material, and at least two pieces of metal circuit plates, said metal column with brazing material being made ~~40 to 140 μ m~~ longer relative to a thickness of the ceramic substrate, by coating both ends of a metal column which is ~~0 to 150 μ m~~ shorter relative to the thickness of the ceramic substrate, with a brazing material;

arranging the metal column with brazing material within the through hole of the ceramic substrate, so that a cavity is defined along the entire length of the metal column, between an inner wall surface of the through hole and an outer wall surface of the metal column, and arranging the metal circuit plates on both surfaces of the ceramic substrate in such a way as to stop up the through hole; and

bonding, after melting the brazing material by heating, the metal column and the metal circuit plates together via the molten brazing material.

3-4. (Canceled)

Appl. No. 10/774,549

Attorney Docket No. 81716.0119

Amdt. Dated February 10, 2006

Customer No.: 26021

Reply to Office Action of October 11, 2005

5. (Original): The method for manufacturing the ceramic circuit board of claim 2,

wherein the metal circuit plate is made of copper or aluminum.

6. (Original): The method for manufacturing the ceramic circuit board of claim 2,

wherein the metal column is made of copper or aluminum.

7. (Canceled)

8. (Currently amended): The method for manufacturing the ceramic circuit board of claim 2,

wherein a ~~space secured~~ distance between an inner wall surface of the through hole and an outer wall surface of the metal column is ~~kept~~ in a range of 30 to 200 μm ~~in length~~.

9-15 (Canceled).

16. (New): The method for manufacturing the ceramic circuit board of claim 2,

wherein a length of the metal column is 0 to 150 μm shorter relative to a thickness of the ceramic substrate and a length of the metal column with brazing material is 40 to 140 μm longer relative to the thickness of the ceramic substrate.